

Fig. 1

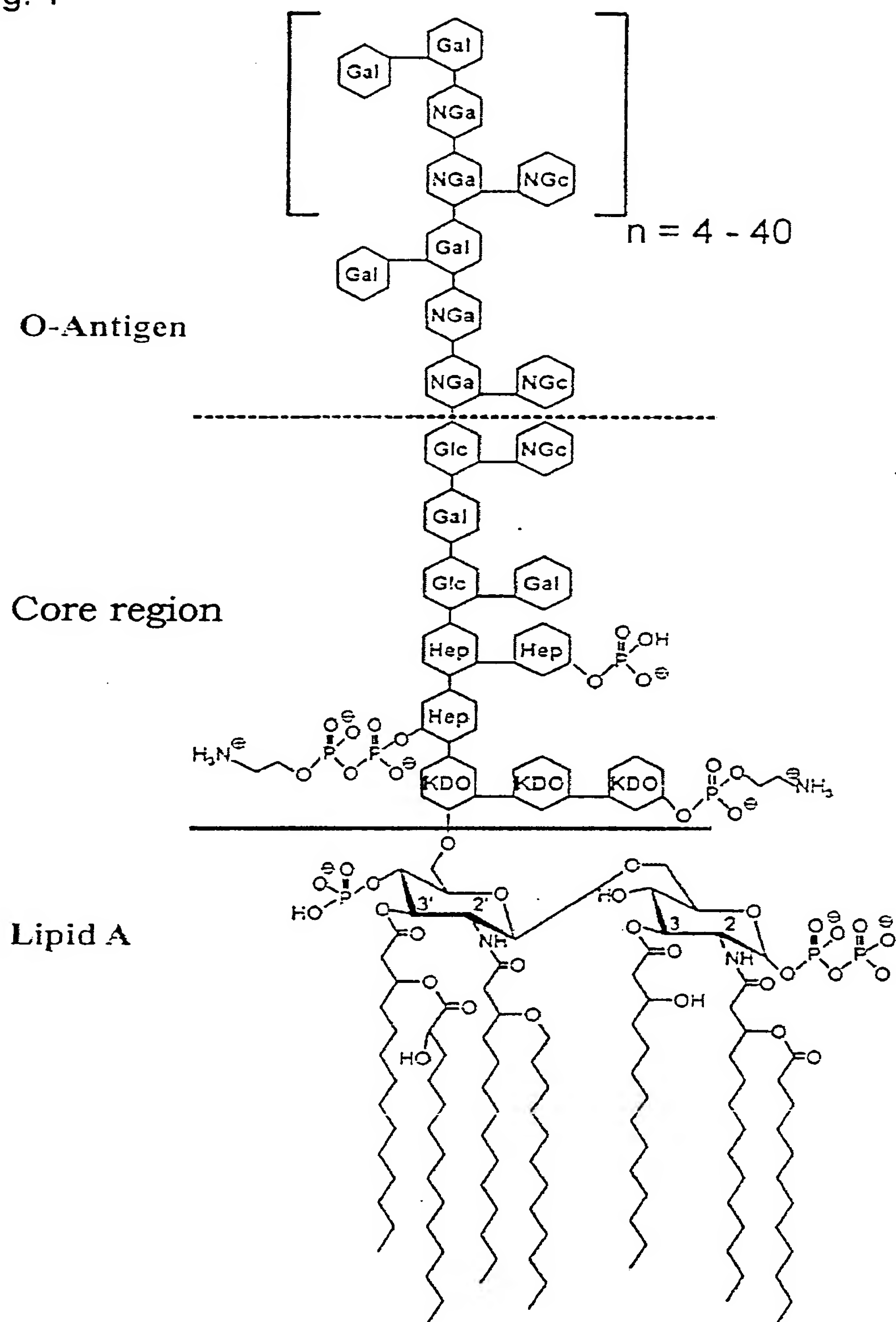


Fig. 2

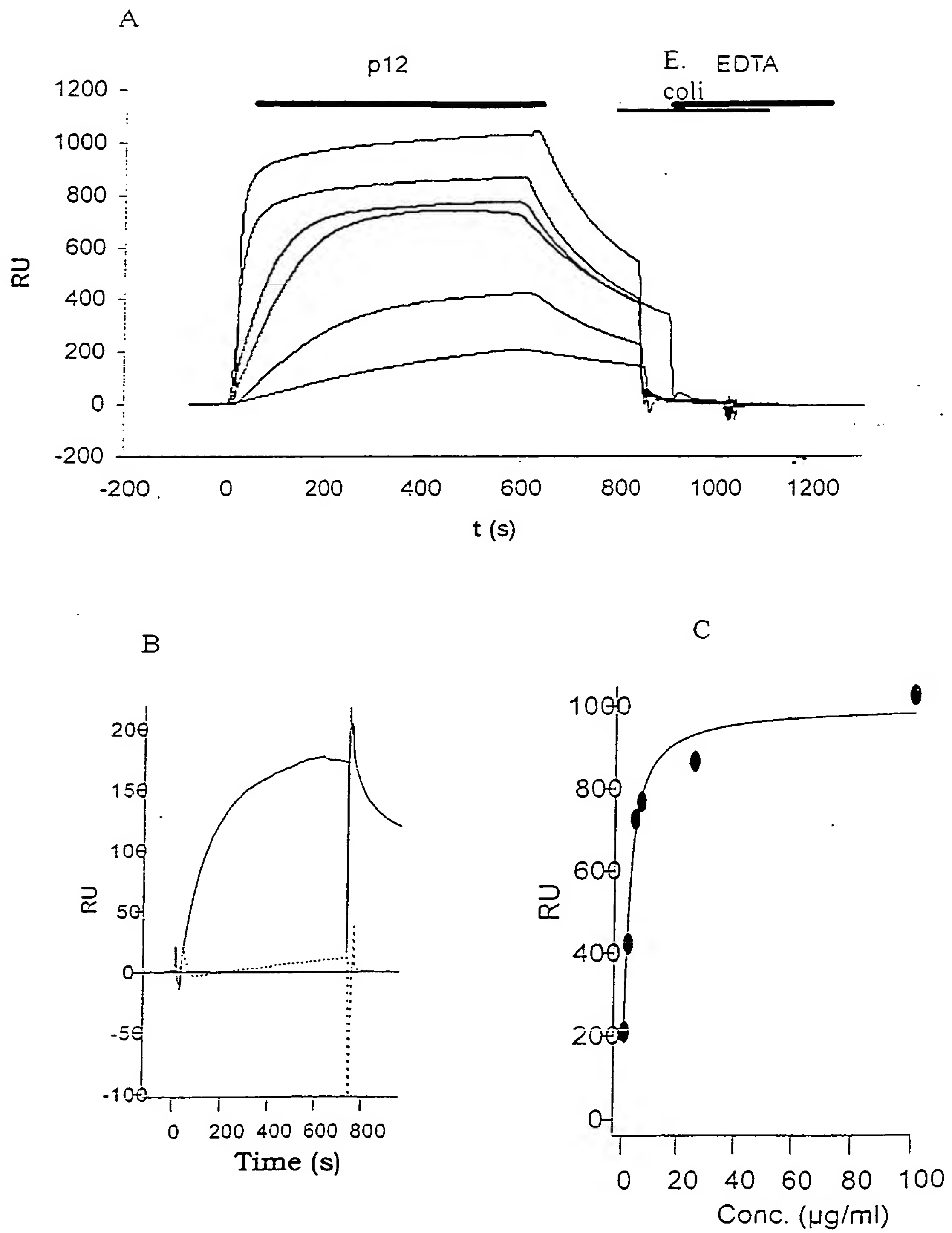
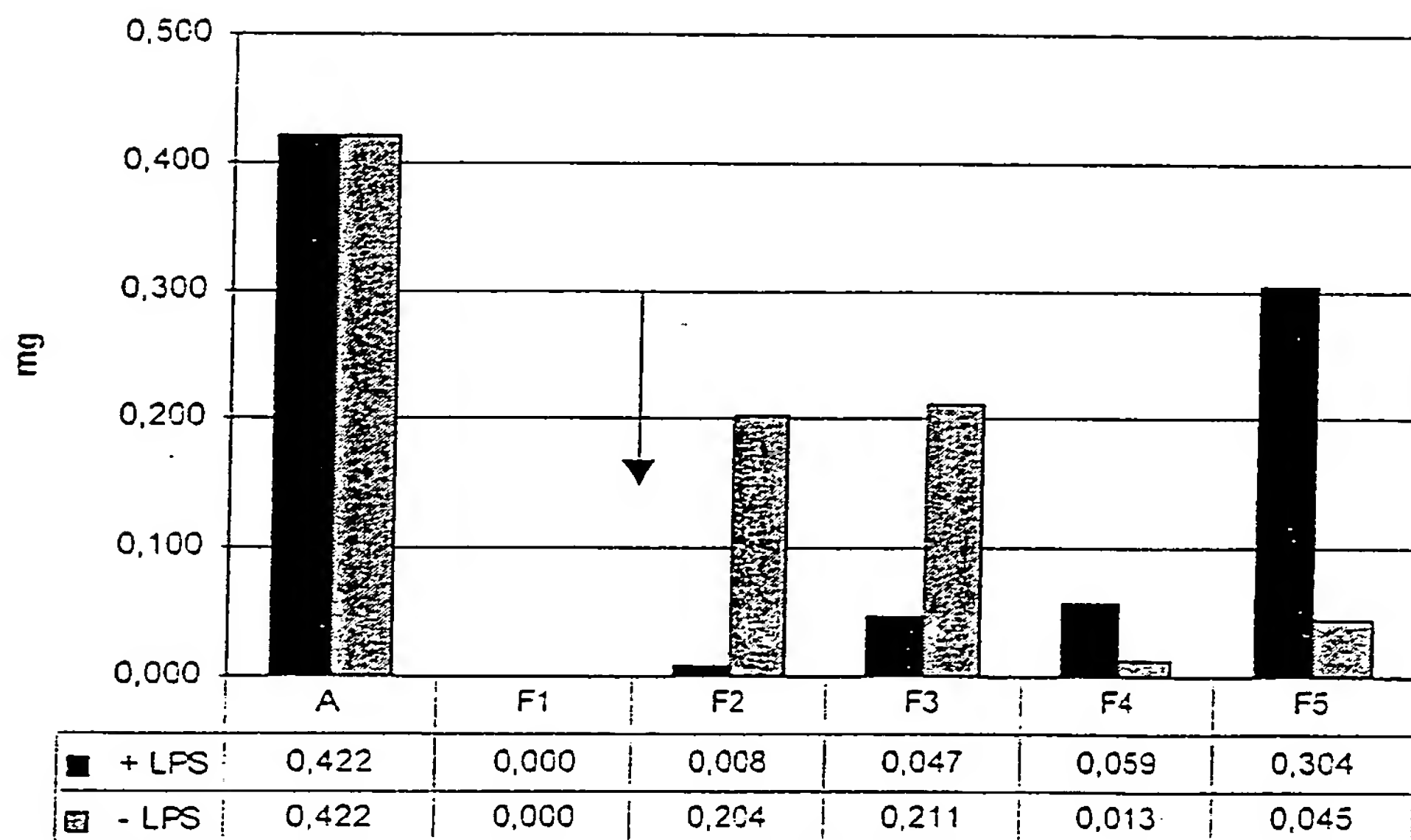


Fig. 3

Endotoxin structure	<i>E. coli</i> strain	p-12 bond
$\begin{array}{c} \text{KDO-LipidA} \\ \\ \text{KDO} \\ \\ \text{KDO} \end{array}$	D21f2	-
$\begin{array}{c} \text{Hep-Hep-KDO-LipidA} \\ \quad \\ \text{Hep} \quad \text{KDO} \\ \\ \text{KDO} \end{array}$	D21f1	+
$\begin{array}{c} \text{Glc-Hep-Hep-KDO-LipidA} \\ \quad \\ \text{Hep} \quad \text{KDO} \\ \\ \text{KDO} \end{array}$	D21e8	+
$\begin{array}{c} \text{Glc-Hep-Hep-KDO-LipidA} \\ \quad \\ \text{Gal} \quad \text{Hep} \quad \text{KDO} \\ \\ \text{KDO} \end{array}$	D21e7	+
$\begin{array}{c} \text{GlcN-Glc-Glc-Glc-Glc-Hep-Hep-KDO-LipidA} \\ \quad \\ \text{Gal} \quad \text{Hep} \quad \text{KDO} \\ \\ \text{KDO} \end{array}$	D21	+

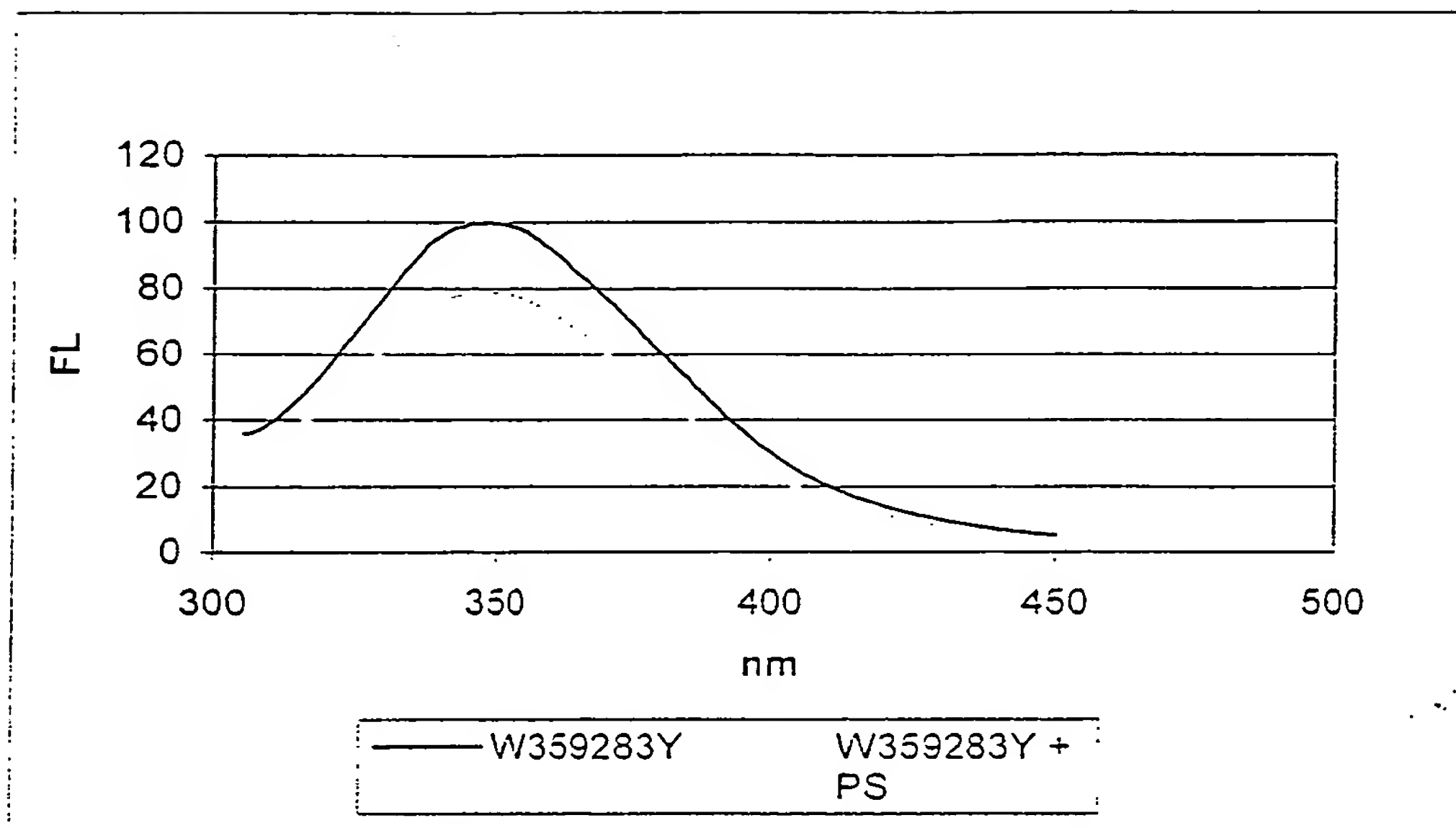
pH	K_d
6,0	3,09 E-07
7,5	6,85 E-08
8,0	5,86 E-08
8,5	7,86 E-08
9,0	3,29 E-08
10,0	1,55 E-07

Fig. 4

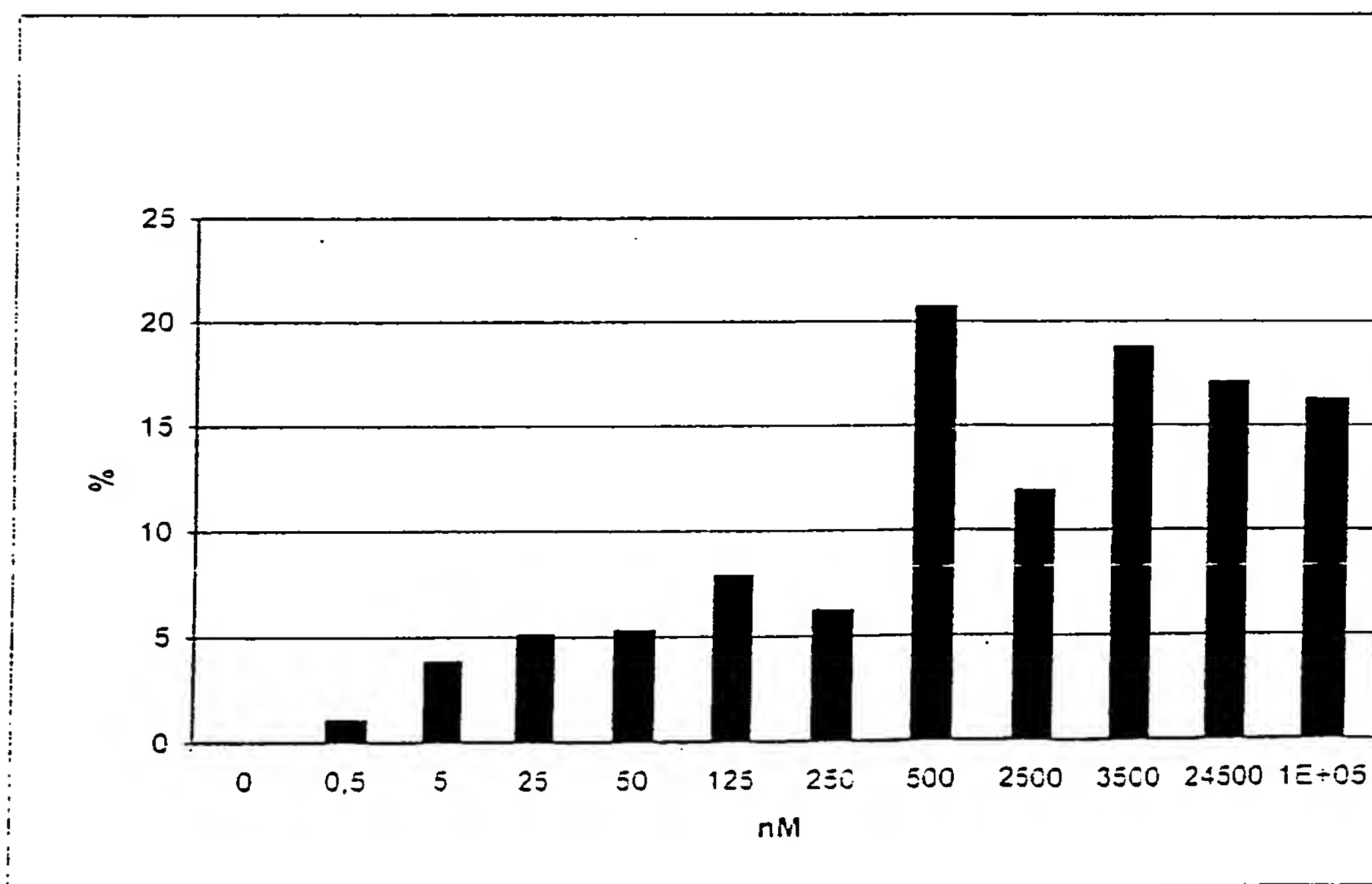


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Fig. 5 A

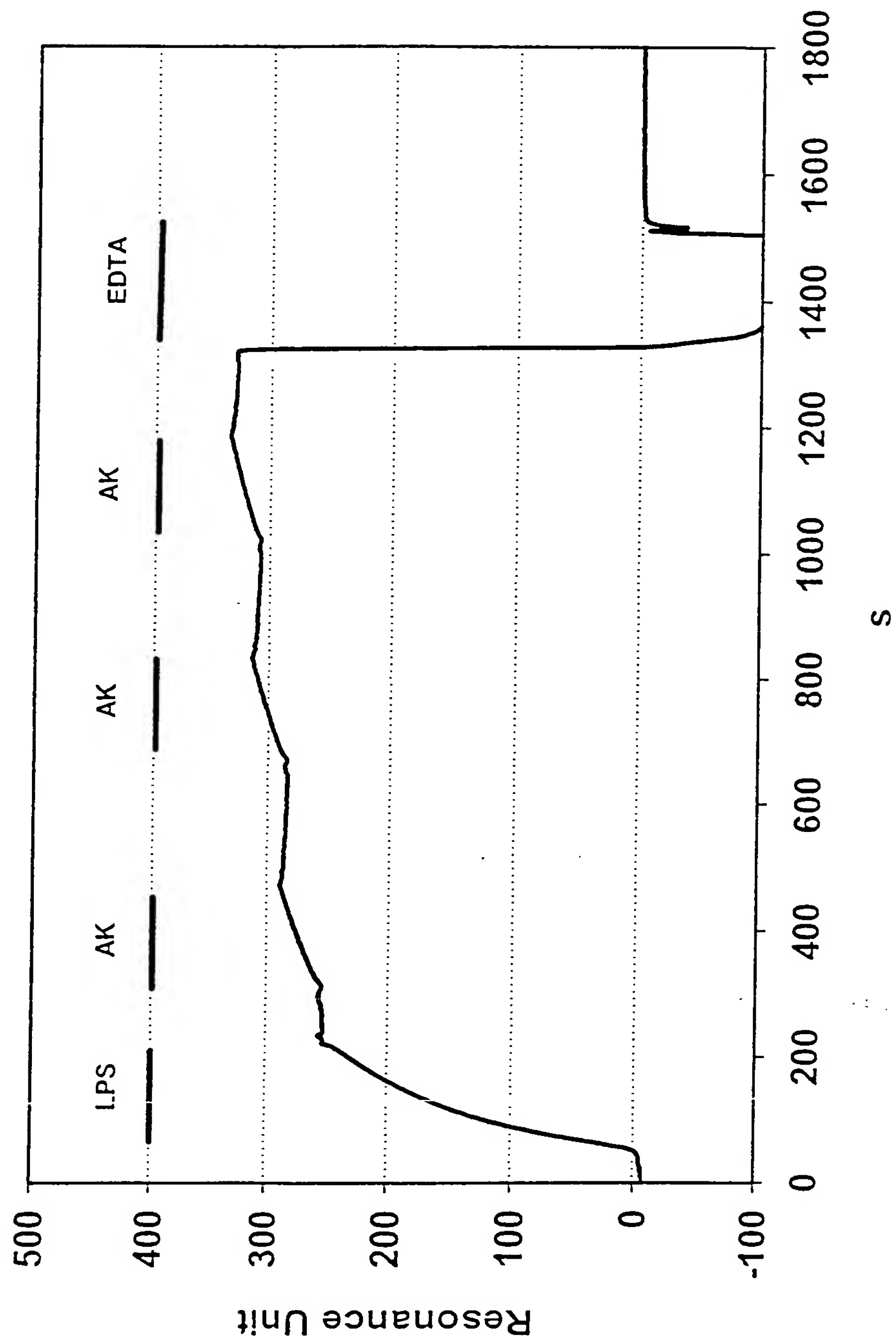


B



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Fig. 6



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Fig. 7A

T2p12	MSNNTYQHVS NESRYVKFDPTDTNFPPEITDVQAAIAAIS PAGVNGVVPDASSTTKGILFL
K3p12	MSNNTYQHVS NESRYVKFDPTDTNFPPEITDVQAAIAAIS PAGVNGVVPDASSTTKGILFL
T4p12	MSNNTYQHVS NESRYVKFDPTDTNFPPEITDVHAAIAAIS PAGVNGVVPDASSTTKGILFI
RB32-33p12	MSNNTYQHVS NESKYVKFDPVGSNFPDVTTVQSALSKISNIGVNGIPDATMEVKG IAMI
AR1p12	MSNNTYQHVS NESKYVKFDP TGSNFPDVTTVQSALSKISNIGVNGIPDATMEVKG IAMI
PP01p12	MSNNTYQHVS NESKYVKFDPVGSNFPDVTTVQSALSKISNIGVNGIPDASMEVKG IAMI
RB69p12	MSNNTYQHVS NESVYVEFDPTGSNFDSSITNVQAALASISAYGVKGVDPDASEAEKGV IQL ***** **:* **..: ** : * *: : : * * **:* *: **:
T2p12	ATEQEVIDGTNNTKAVTPATLATRLSYPNATEAVYGLTRYSTDDEAIAGVNNESSITPAK
K3p12	ATEQEVIDGTNNTKAVTPATLATRLSYPNATETVYGLTRYSTNDEAIAGVNNESSITPAK
T4p12	PTEQEVIDGTNNTKAVTPATLATRLSYPNATETVYGLTRYSTNDEAIAGVNNESSITPAK
RB32-33p12	ASEQEVL DGTNNSKI VTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQK
AR1p12	ASEQEVL DGTNNSKI VTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQK
PP01p12	ASEQEVL DGTNNSKI VTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQK
RB69p12	ATEQEVL DGFNSTKAVTPATLNARLQYPNASETQYGVTKYATQEEAIAGTLDTVSITPLK .:*****: ** *: : * ***** : ** *****: : **:* *: : : : * .: .***** *
T2p12	FTVALNNVFETR VSTESSNGVIKISSLPQALAGADDTTAMTPLKTQQLAVKLI AQIAPSK
K3p12	FTVALNNAFETR VSTESSNGVIKISSLPQALAGADDTTAMTPLKTQQLAIKLI AQIAPSE
T4p12	FTVALNNAFETR VSTESSNGVIKISSLPQALAGADDTTAMTPLKTQQLAIKLI AQIAPSE
RB32-33p12	LKYHTDDVFQNRYSSESSNGVIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSE
AR1p12	LKYHTDDVFQNRYSSESSNGVIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSE
PP01p12	LKYHTDDVFQNRYSSESSNGVIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSE
RB69p12	LNQ TIDNTFSTRYSTETTNGVIKIATQTAALAGSDDTTAMTPLKTQQLAIKLI SQIAPNN :. : : . * . . * *: : : *****: : . ***** *****: : *: *****: *****: :
T2p12	NAATESEQGVIQLATVAQARQGT LREGYAI SPYTFMNSTATEEYKGVIKLGTQSEVNSNN
K3p12	TTATESDQGVVQLATVAQVRQGT LREGYAI SPYTFMNSSATEEYKGVIKLGTQSEVNSNN
T4p12	TTATESDQGVVQLATVAQVRQGT LREGYAI SPYTFMNSSSTEYKGVIKLGTQSEVNSNN
RB32-33p12	DTASESVRGVVQLSTVAQTRQGT LREGYAI SPYTFMNSVATQEYKGVIRLGTQSEINSNL
AR1p12	DTASESVRGVVQLSTVAQTRQGT LREGYAI SPYTFMNSVATQEYKGVIRLGTQSEINSNL
PP01p12	DTASESVRGVVQLSTVAQTRQGT LREGYAI SPYTFMNSVATQEYKGVIRLGTQSEINSNL
RB69p12	DPASESITGVVRLATVAQTRQGT LREGYAI SPYTFMNSVATQEYKGVIRLGTQAEINSNL . *: ** *: : : *: *****. ***** ***** : *: *****: *****: *: *****
T2p12	ASVAVTGATLN GRGSTTSMRGVVKLT TTTAGSQSGGDASSALAWNADV IHQRRGGQT INGTL
K3p12	ASVAVTGATLN GRGSTTSMRGVVRLT TTTAGSQSGGDASSALAWNADV IHQRRGGQT INGTL
T4p12	ASVAVTGATLN GRGSTTSMRGVVKLT TTTAGSQSGGDASSALAWNADV IQRRGGQ I IYGT L
RB32-33p12	GDVAVTGETLN GRGATSSMRGVVKLT TQAGIAPEGDSSGALAWNADV INTRGGQT INGSL
AR1p12	GDVAVTGETLN GRGATGSMRGVVKLT TQACIAPEGDSSGALAWNADV INTRGGQT INGSL
PP01p12	GDVAVTGETLN GRGATGSMRGVVKLT TQAGIAPEGDSSGALAWNADV INTRGGQT INGSL
RB69p12	GDVAVTGETLN GRGATGSMRGVVKLT TQAGVAPEGDSSGALAWNADV INTRGGQT INGSL ..***** *****: * *****: ***** ** . **.*. *****: ***** * *: *
T2p12	RINNTLTIASGGANITGTVNMTGGYIQGKR VVTQNEIDRTIPVGAIMMWAADSLPSDAWR
K3p12	RINNTLTIASGGANITGTVNMTGGYIQGKR VVTQNEIDRTIPVGAIMMWAADSLPSDAWR
T4p12	RIEDTFTIANGGANITGTVRMTGGYIQGNRIVTQNEIDRTIPVGAIMMWAADSLPSDAWR
RB32-33p12	NLD---HLTANGIWSRGGMWKNG---DQPVATERYASERVPVGTIMMFAGDSAP-PGWI
AR1p12	NLD---HLTANGIWSRGGMWKNG---DQPVATERYASERVPVGTIMMFAGDSAP-PGWI
PP01p12	NLD---HLTANGIWSRGGMWKNG---DQPVATERYASERVPVGTIMMFAGDSAP-PGWI
RB69p12	NLD---HLTANGIWSRGGMWKNG---DQPVATERYASERVPVGTIQMFAGDSAP-PGWV .: : : . * * : . * .: .: * : . . : *****: * *: * . * * *

Fig. 7B

T2p12	FCHGGTVSASDCPLYASRIGTRYGGTSSNPGLPDMRGLFVRGSGRGSHTLTPNVNGNDQF
K3p12	FCHGGTVSASDCPLYASRIGTRYGGSSNPGLPDMRGLFVRGSGRGSHTLTPNVNGNDQF
T4p12	FCHGGTVSASDCPLYASRIGTRYGGNPSNPGLPDMRGLFVRGSGRGSHTLTPNVNGNDQF
RB32-33p12	MCHGGTVSGDQYPDYRNTVGARFGGDWNNPGIPDMRGLFVRGAGTGGHILNQ--RGQDGY
AR1p12	MCHGGTVSGDQYPDYRNTVGTRFGGDWNNPGIPDMRGLFVRGAGTGGHILNQ--RGQDGY
PP01p12	MCHGGTVSGDQYPDYRNTVGTRFGGDWNNPGIPDMRGLFVRGAGTGXHILNQ--RGQDGY
RB69p12	LCHGGTISGDQFPDYRNVVGTRFGGDWNNPGIPDMRGLFVRGAGTGSHILNN--RGQDGY
	:*****:*. .: * * . :*:*:** .***:*****: * * *: * .*: * :
T2p12	GKPRLGVGCTGGYVGEVQKQQMSYHKHAGGFGEY---DDSGAFGNTRRSNFGVTRKGLDW
K3p12	GKPRLGVGCTGGYVGEVQKQQMSYHKHAGGFGEW---DDSGAFGNTRRSNFGVTRKGLDW
T4p12	GKPRLGVGCTGGYVGEVQIQQMSYHKHAGGFGEH---DDLGAFGNTRRSNFGVTRKGLDW
RB32-33p12	GKDRLGVGCDGMHVGGVQAQQMSYHKHAGGWGEY--QRHEAPFGASVYQGYLGTRKYSDW
AR1p12	GKDRLGVGCDGMHVGGVQAQQMSYHKHAGGWGEY--NRSEGPFGASVYQGYLGTRKYSDW
PP01p12	GKDRLGVGCDGMHVGGVQAQQISYHKHAGAWGENGNRGYAPFGASNGSGYLGNGRSADW
RB69p12	GKDRLGVGCDGMHVGGVQAQQMSYHKHAGGWGEF--QRHEAPFGASVYQGYLGTRKYSDW
	** ***** * :** ** *:*****:*** .** : . .:*. : **
T2p12	DNRSYFTNDGYEIDPASQRNSRYTLNRPELIGNETRPWNISLNYIIKVKE
K3p12	DNRSYFTNDGYEIDPASQRNSRYTLNRPELIGNETRPWNISLNYIIKVKE
T4p12	DNRSYFTNDGYEIDPESQRNSKYTLNRPELIGNETRPWNISLNYIIKVKE
RB32-33p12	DNASYFTNDGFELG--GPRDALGTLNREGLIGYETRPWNISLNYIIKIHY
AR1p12	DNASYFTNDGFELG--GPRDALGTLNREGLIGYETRPWNISLNYIIKIHY
PP01p12	DNHLFFTNDGFEMG--GPRDSFGTLNREGLIGYETRPWNISLNYIIKIHY
RB69p12	DNASYFTNDGFELG--GHRDATGTLNREGLIGYETRPWNISLNYIIKVHY
	** :*****:*. . . *: : **** ** *****: :